

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A projection-type display device comprising:
a projection surface on which a predetermined projection image is displayed through projection from a rear side;
a writing surface on which an image can be drawn directly from a front side in a superimposing manner with the projection image displayed on said projection surface; ~~and~~
a photography part photographing an image drawn on said writing surface from the rear side; and
a blocking part blocking a light beam emitted from a projecting part projecting the light beam onto said projection surface so as to display the projection image thereon.

Claim 2 (Original): The projection-type display device as claimed in claim 1, further comprising a projection part which emits a light beam comprising an image signal onto said projection surface so as to display the predetermined image on said projection surface.

Claim 3 (Original): The projection-type display device as claimed in claim 2, wherein:

said writing surface comprises the same surface as said projection surface or is located on the same the side of said projection surface as that on which a user who draws an image onto said writing surface exists; and

said display device further comprises an extracting part extracting a user-drawn image from an image photographed by said photography part.

Claim 4 (Original): The projection-type display device as claimed in claim 3, further comprising a combining part combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said extracting part.

Claim 5 (Original): The projection-type display device as claimed in claim 4, wherein:

a mode selecting part is provided through which a selection is made between a first photography mode in which the user-drawn image is obtained and a second photography mode in which the combined image is obtained.

Claim 6 (Original): The projection-type display device as claimed in claim 1, wherein the optical axis of said photography part is perpendicular to said writing surface.

Claim 7 (Original): The projection-type display device as claimed in claim 1, further comprising a part making a correspondence between the projection image and drawn image.

Claim 8 (Original): The projection-type display device as claimed in claim 1, further comprising:

an input part inputting the projection image externally;

a recording part recording at least one of the projection image, user-drawn image and combined image; and

an output part outputting the user-drawn image externally.

Claim 9 (Canceled).

Claim 10 (Previously Presented): The projection-type display device as claimed in claim 1, wherein:

a shifting part shifting a photography area of said photography part on said writing surface is provided;

said photography part takes a photograph several times in a manner such that the photography area thereof is shifted each time by said shifting part; and

a combining part is provided, and, thereby, photographed images obtained through the several times of photography are combined.

Claim 11 (Previously Presented): The projection-type display device as claimed in claim 10, wherein;

said shifting part shifts the photography area by a distance corresponding to one pixel each time;

said shifting part comprises a piezoelectric device; and

the vibration distance of said piezoelectric device corresponds to one pixel.

Claim 12 (Original): The projection-type display device as claimed in claim 1, wherein:

said writing surface is divided into a plurality of areas;

said photography part takes a plurality of photographs of respective ones of the plurality of areas; and

a combining part is provided, and, thereby, a thus-obtained plurality of photographed images are combined.

Claim 13 (Original): The projection-type display device as claimed in claim 1,
wherein:

a moving part moving a photography area of said photography part on said writing
surface is provided;

said photography part takes a photograph several times in a manner such that the
photography area thereof each time corresponds to a different division of said writing
surface; and

a combining part is provided, and, thereby, photographed images obtained through the
several times of photography are combined.

Claim 14 (Original): The projection-type display device as claimed in claim 13,
further comprising a part displaying the photography area onto said projection surface.

Claim 15 (Original): The projection-type display device as claimed in claim 12,
further comprising an input part through which instructions of at least one of whether or not a
dividing photography is performed in which a part or all of said writing surface is divided and
each division is photographed, and the number of divisions in the dividing photography, are
input.

Claim 16 (Original): The projection-type display device as claimed in claim 13,
further comprising an input part through which instructions of at least one of whether or not a
dividing photography is performed in which a part or all of said writing surface is divided and
each division is photographed, and the number of divisions in the dividing photography, are
input.

Claim 17 (Original): The projection-type display device as claimed in claim 1, further comprising a lighting part illuminating said writing surface from a side opposite to a side on which said photography part is provided.

Claim 18 (Original): The projection-type display device as claimed in claim 1, further comprising at least one lighting part illuminating said writing surface from a side on which said photography part is provided.

Claim 19 (Original): The projection-type display device as claimed in claim 17, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis of a part projecting the projecting image onto said projection surface.

Claim 20 (Original): The projection-type display device as claimed in claim 18, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis of a part projecting the projecting image onto said projection surface.

Claim 21 (Original): The projection-type display device as claimed in claim 1, further comprising a dispersion surface removably provided on a surface of said writing surface opposite to a user who draws an image on said writing surface.

Claim 22 (Original): The projection-type display device as claimed in claim 1, further comprising:

a dispersion sheet comprising a dispersion area which covers all or a part of said writing part and a transparent area which transmits, to said writing surface, at least a part of a light beam emitted by a part which projects the projection image onto said projection surface; and

a moving part moving said dispersion sheet.

Claim 23 (Currently Amended): A projection-type display device connected to a computer via a communication network, and operating according to instructions given by said computer, comprising:

a projection surface on which a predetermined projection image is displayed through projection from a rear side;

a writing surface on which an image can be drawn directly from a front side in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image drawn on said writing surface from the rear side; and

a blocking part blocking a light beam emitted from a projecting part projecting the light beam onto said projection surface so as to display the projection image thereon.

Claim 24 (Currently Amended): A computer readable recording medium storing a software program for operating a projection-type display device which comprises:

a projection surface on which a predetermined projection image is displayed through projection from a rear side;

a writing surface on which an image can be drawn directly from a front side in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image drawn on said writing surface from the rear side[[],]; and

a blocking part blocking a light beam emitted from a projecting part projecting the light beam onto said projection surface so as to display the projection image thereon,

wherein said software program is read by a computer which thus performs the following steps:

- a) making said photography part to take a photograph of said writing surface;
- and
- b) extracting an image drawn by a user onto said writing surface, from the photographed image obtained through said step a).

Claim 25 (Original): The computer readable recording medium as claimed in claim 24, wherein said software program causes the computer to further perform the following step:

- c) combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said step b).

Claim 26 (Original): The computer readable recording medium as claimed in claim 25, wherein said software program causes the computer to further perform the following step:

- d) causing a user to select a mode between a first photography mode in which the user drawn image is obtained and a second photography mode in which the combined image is obtained.

Claim 27 (Original): The computer readable recording medium as claimed in claim 24, wherein said software program causes the computer to further perform the following steps:

- c) causing said photography part to take a plurality of photographs of respective ones of a predetermined plurality of divisions of said writing surface; and
- d) combining a thus-obtained plurality of photographed images.

Claim 28 (Original): The computer readable recording medium as claimed in claim 24, wherein said software program causes the computer to further perform the following steps:

- c) moving a photography area of said photography part on said writing surface;
- d) causing said photography part to take a photograph several times in a manner such that the photography area thereof each time corresponds to a different division of said writing surface; and
- e) combining photographed images obtained through the several times of photography.

Claim 29 (Original): The computer readable recording medium as claimed in claim 27, wherein said software program causes the computer to further perform the following steps:

- e) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.

Claim 30 (Original): The computer readable recording medium as claimed in claim 28, wherein said software program causes the computer to further perform the following steps:

f) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed and, the number of divisions in the dividing photography.

Claim 31 (Currently Amended): A software program for operating a projection-type display device which comprises:

a projection surface on which a predetermined projection image is displayed through projection from a rear side;

a writing surface on which an image can be drawn directly from a front side in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image drawn on said writing surface from the rear side[.,,]; and

a blocking part blocking a light beam emitted from a projecting part projecting the light beam onto said projection surface so as to display the projection image thereon,

wherein said software program is read by a computer which thus performs the following steps:

a) making said photography part to take a photograph of said writing surface;

and

b) extracting an image drawn by a user onto said writing surface, from the photographed image obtained through said step a).

Claim 32 (Original): The software program as claimed in claim 31, wherein said software program causes the computer to further perform the following step:

c) combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said step b).

Claim 33 (Original): The software program as claimed in claim 32, wherein said software program causes the computer to further perform the following steps:

d) causing a user to select a mode between a first photography mode in which the user-drawn image is obtained and a second photography mode in which the combined image is obtained.

Claim 34 (Original): The software program as claimed in claim 31, wherein said software program causes the computer to further perform the following steps:

c) causing said photography part to take a plurality of photographs of respective ones of a predetermined plurality of divisions of said writing surface; and

d) combining a thus-obtained plurality of photographed images.

Claim 35 (Original): The software program as claimed in claim 31, wherein said software program causes the computer to further perform the following steps:

c) moving a photography area of said photography part on said writing surface;

d) causing said photography part to take a photograph several times in a manner such that the photography area thereof each time corresponds to a different division of said writing surface; and

e) combining photographed images obtained through the several times of photography.

Claim 36 (Original): The software programs as claimed in claim 34, causing the computer to further perform the following steps:

e) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.

Claim 37 (Original): The software program as claimed in claim 35, causing the computer to further perform the following steps:

f) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.

Claim 38 (New): A projection-type display device comprising:

a projection surface on which a predetermined projection image is displayed through projection from a rear side;

a writing surface on which an image can be drawn directly from a front side in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image drawn on said writing surface from the rear side,

wherein:

a shifting part shifting a photography area of said photography part on said writing surface is provided;

said photography part takes a photograph several times in a manner such that the photography area thereof is shifted each time by said shifting part; and

a combining part is provided, and, thereby, photographed images obtained through the several times of photography are combined.

Claim 39 (New): The projection-type display device as claimed in claim 38, further comprising a projection part which emits a light beam comprising an image signal onto said projection surface so as to display the predetermined image on said projection surface.

Claim 40 (New): The projection-type display device as claimed in claim 39, wherein:
said writing surface comprises the same surface as said projection surface or is located on the same the side of said projection surface as that on which a user who draws an image onto said writing surface exists; and

said display device further comprises an extracting part extracting a user-drawn image from an image photographed by said photography part.

Claim 41 (New): The projection-type display device as claimed in claim 40, further comprising a combining part combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said extracting part.

Claim 42 (New): The projection-type display device as claimed in claim 41, wherein:
a mode selecting part is provided through which a selection is made between a first photography mode in which the user-drawn image is obtained and a second photography mode in which the combined image is obtained.

Claim 43 (New): The projection-type display device as claimed in claim 38, wherein the optical axis of said photography part is perpendicular to said writing surface.

Claim 44 (New): The projection-type display device as claimed in claim 38, further comprising a part making a correspondence between the projection image and drawn image.

Claim 45 (New): The projection-type display device as claimed in claim 38, further comprising:

an input part inputting the projection image externally;

a recording part recording at least one of the projection image, user-drawn image and combined image; and

an output part outputting the user-drawn image externally.

Claim 46 (New): The projection-type display device as claimed in claim 38, wherein; said shifting part shifts the photography area by a distance corresponding to one pixel each time;

said shifting part comprises a piezoelectric device; and

the vibration distance of said piezoelectric device corresponds to one pixel.

Claim 47 (New): The projection-type display device as claimed in claim 38, wherein: said writing surface is divided into a plurality of areas; said photography part takes a plurality of photographs of respective ones of the plurality of areas; and

a combining part is provided, and, thereby, a thus-obtained plurality of photographed images are combined.

Claim 48 (New): The projection-type display device as claimed in claim 38, wherein: a moving part moving a photography area of said photography part on said writing surface is provided;

said photography part takes a photograph several times in a manner such that the photography area thereof each time corresponds to a different division of said writing surface; and

a combining part is provided, and, thereby, photographed images obtained through the several times of photography are combined.

Claim 49 (New): The projection-type display device as claimed in claim 48, further comprising a part displaying the photography area onto said projection surface.

Claim 50 (New): The projection-type display device as claimed in claim 47, further comprising an input part through which instructions of at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography, are input.

Claim 51 (New): The projection-type display device as claimed in claim 48, further comprising an input part through which instructions of at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography, are input.

Claim 52 (New): The projection-type display device as claimed in claim 38, further comprising a lighting part illuminating said writing surface from a side opposite to a side on which said photography part is provided.

Claim 53 (New): The projection-type display device as claimed in claim 38, further comprising at least one lighting part illuminating said writing surface from a side on which said photography part is provided.

Claim 54 (New): The projection-type display device as claimed in claim 52, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis of a part projecting the projecting image onto said projection surface.

Claim 55 (New): The projection-type display device as claimed in claim 53, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis of a part projecting the projecting image onto said projection surface.

Claim 56 (New): The projection-type display device as claimed in claim 38, further comprising a dispersion surface removably provided on a surface of said writing surface opposite to a user who draws an image on said writing surface.

Claim 57 (New): The projection-type display device as claimed in claim 38, further comprising:

a dispersion sheet comprising a dispersion area which covers all or a part of said writing part and a transparent area which transmits, to said writing surface, at least a part of a light beam emitted by a part which projects the projection image onto said projection surface; and

a moving part moving said dispersion sheet.